

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX081219\
 Data File : VX011504.D
 Acq On : 13 Aug 2019 00:03
 Operator : JC/SP
 Sample : K4230-13
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 2S-J(0)

Quant Time: Aug 13 07:46:09 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X080119W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 02 01:55:00 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	187264	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	284651	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	258850	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	114157	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	104997	55.68	ug/l	0.00
Spiked Amount			Recovery	=	111.36%	
35) Dibromofluoromethane	5.49	113	86990	46.81	ug/l	0.00
Spiked Amount			Recovery	=	93.62%	
50) Toluene-d8	8.71	98	336892	48.02	ug/l	0.00
Spiked Amount			Recovery	=	96.04%	
62) 4-Bromofluorobenzene	11.13	95	108389	43.28	ug/l	0.00
Spiked Amount			Recovery	=	86.56%	

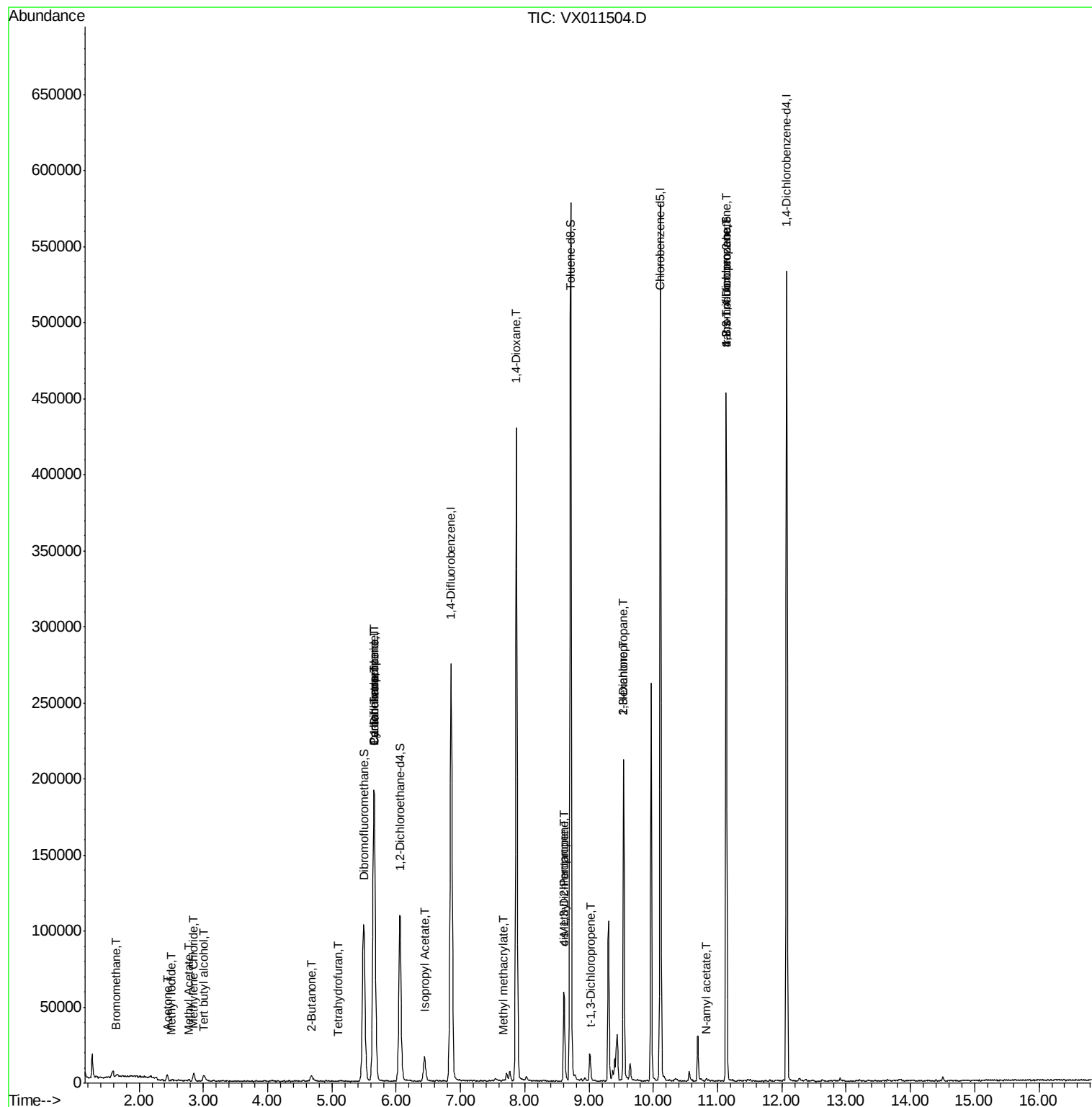
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	692	0.543	ug/l #	59
6) Chloroethane	1.73	64	229	Below Cal	#	45
10) Methyl Iodide	2.51	142	606	0.280	ug/l #	88
11) Tert butyl alcohol	3.01	59	2388	6.372	ug/l #	74
13) Acrolein	2.28	56	29	Below Cal	#	1
16) Acetone	2.43	43	4108	4.577	ug/l #	83
18) Methyl Acetate	2.77	43	1037	0.506	ug/l	97
20) Methylene Chloride	2.85	84	2389	1.215	ug/l	95
25) 2-Butanone	4.68	43	1628	1.275	ug/l	93
29) Tetrahydrofuran	5.10	42	178	0.227	ug/l #	45
31) Cyclohexane	5.65	56	3652	1.504	ug/l #	32
36) 1,1-Dichloropropene	5.66	75	13052	5.252	ug/l #	49
38) Carbon Tetrachloride	5.65	117	18065	7.225	ug/l #	14
43) Isopropyl Acetate	6.44	43	21029	5.276	ug/l	99
48) Methyl methacrylate	7.68	41	1718	0.916	ug/l #	10
49) 1,4-Dioxane	7.87	88	48	0.883	ug/l #	1
51) 4-Methyl-2-Pentanone	8.61	43	20509	7.973	ug/l #	52
53) t-1,3-Dichloropropene	9.04	75	110	2.876	ug/l #	43
54) cis-1,3-Dichloropropene	8.61	75	9381	3.383	ug/l #	71
57) 1,3-Dichloropropane	9.54	76	1870	0.587	ug/l #	41
59) 2-Hexanone	9.54	43	24183	12.138	ug/l #	53
74) N-amyl acetate	10.83	43	907	0.322	ug/l #	53
76) 1,2,3-Trichloropropane	11.13	75	57018	27.427	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.13	75	57018	71.132	ug/l #	10

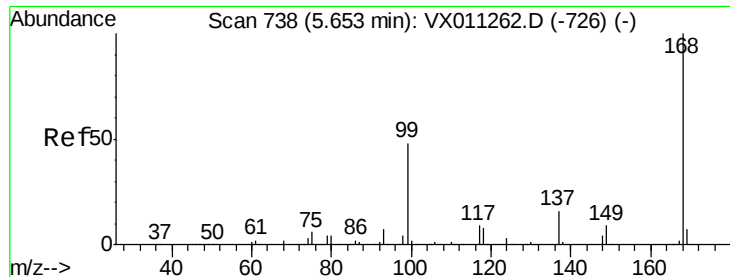
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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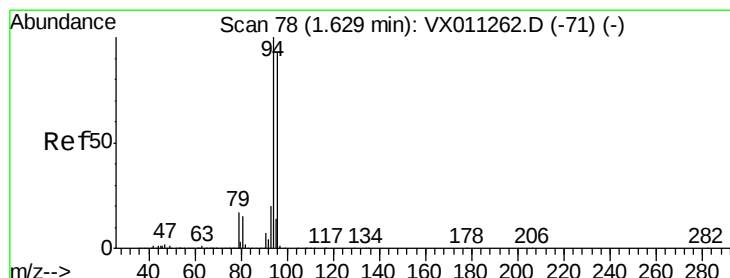
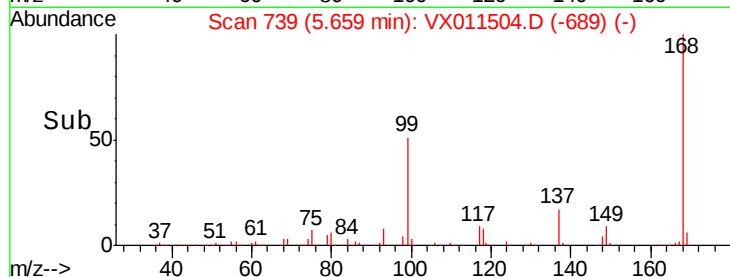
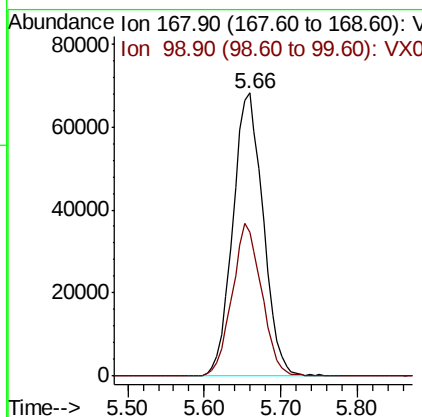
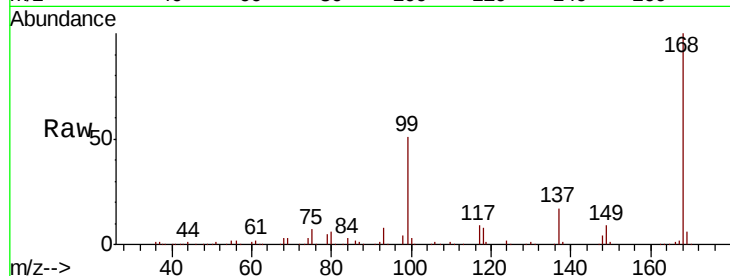




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.01 min
Lab File: VX011504.D
Acq: 13 Aug 2019 00:03

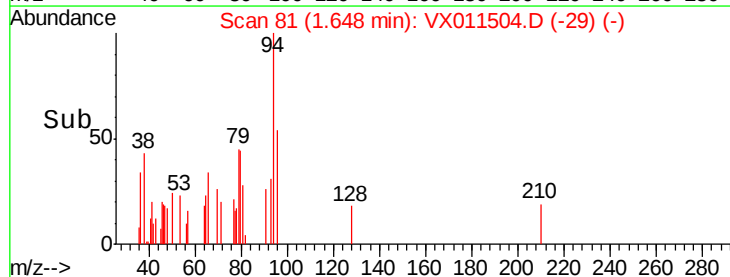
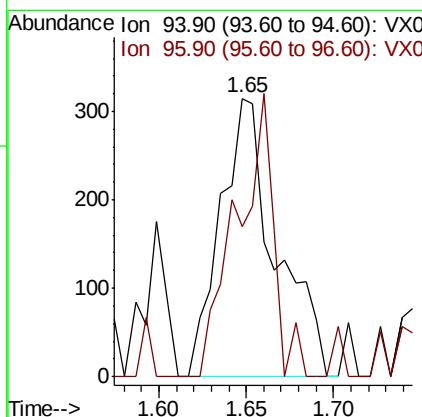
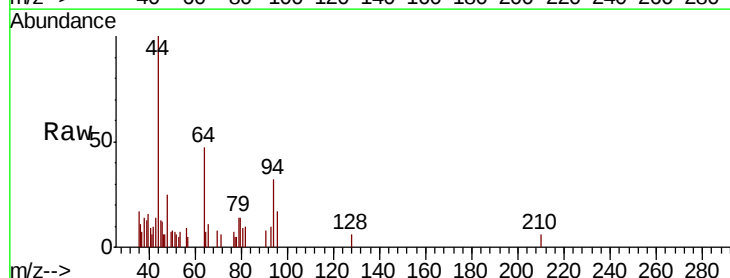
Instrument :
MSVOA_X
ClientSampleId :
2S-J-(0)

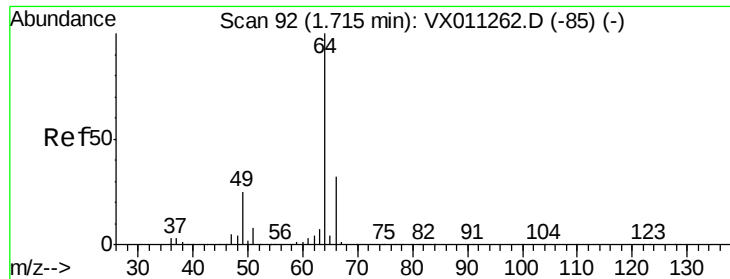
Tgt Ion:168 Resp: 187264
Ion Ratio Lower Upper
168 100
99 50.8 38.5 57.7



#5
Bromomethane
Concen: 0.543 ug/l
RT: 1.65 min Scan# 81
Delta R.T. 0.02 min
Lab File: VX011504.D
Acq: 13 Aug 2019 00:03

Tgt Ion: 94 Resp: 692
Ion Ratio Lower Upper
94 100
96 54.0 74.6 112.0#





#6

Chloroethane

Concen: Below Cal

RT: 1.73 min Scan# 94

Delta R.T. 0.01 min

Lab File: VX011504.D

Acq: 13 Aug 2019 00:03

Instrument :

MSVOA_X

ClientSampleId :

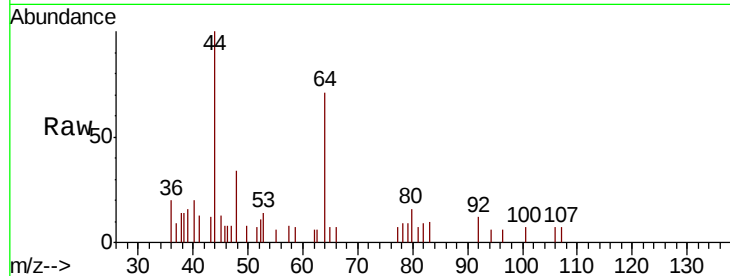
2S-J-(0)

Tgt Ion: 64 Resp: 229

Ion Ratio Lower Upper

64 100

66 0.8 25.1 37.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.73

600

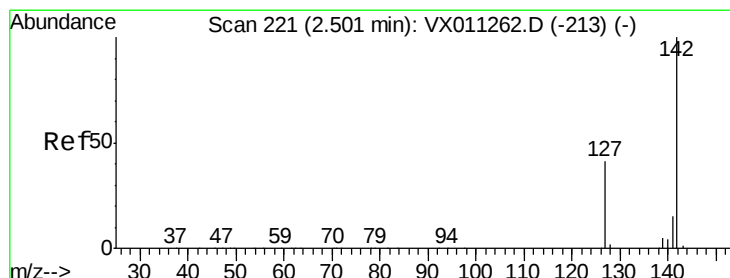
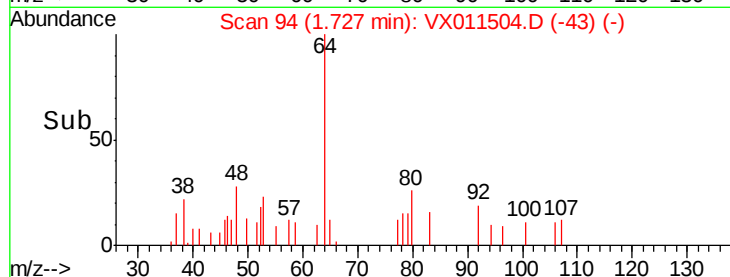
400

200

0

1.70 1.72 1.74

Time-->



#10

Methyl Iodide

Concen: 0.280 ug/l

RT: 2.51 min Scan# 222

Delta R.T. 0.01 min

Lab File: VX011504.D

Acq: 13 Aug 2019 00:03

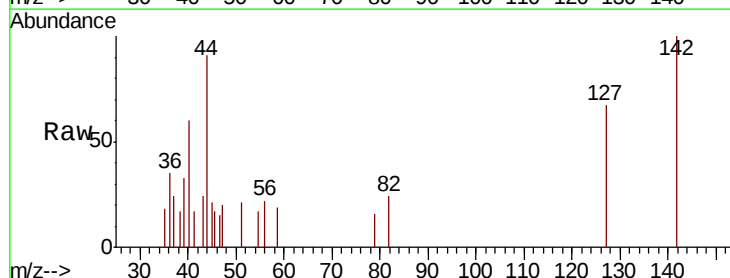
Tgt Ion: 142 Resp: 606

Ion Ratio Lower Upper

142 100

127 50.8 33.8 50.8#

141 17.5 11.4 17.2#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

2.51

400

300

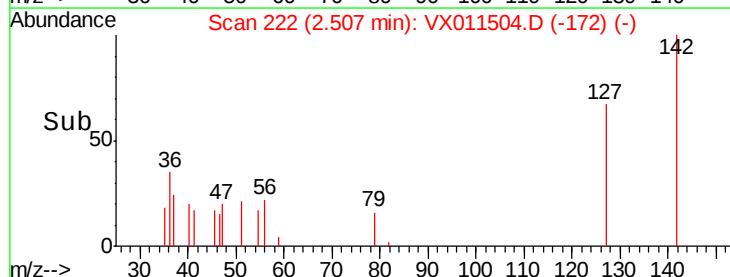
200

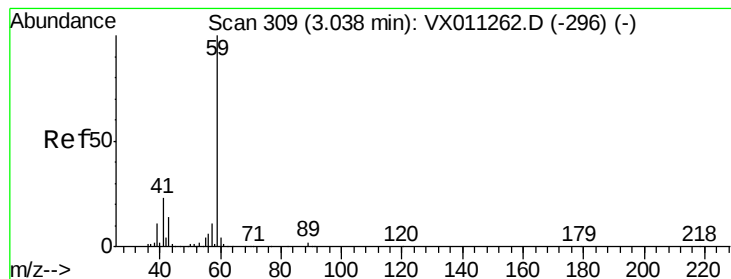
100

0

2.45 2.50 2.55

Time-->



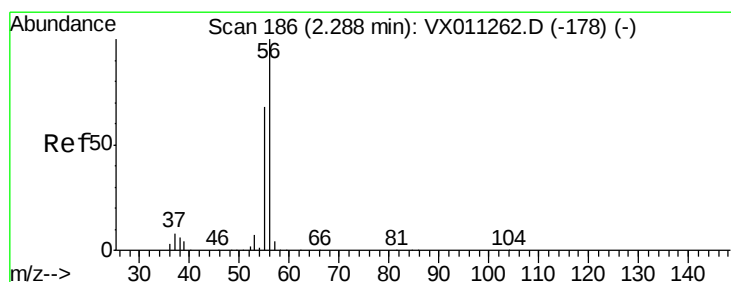
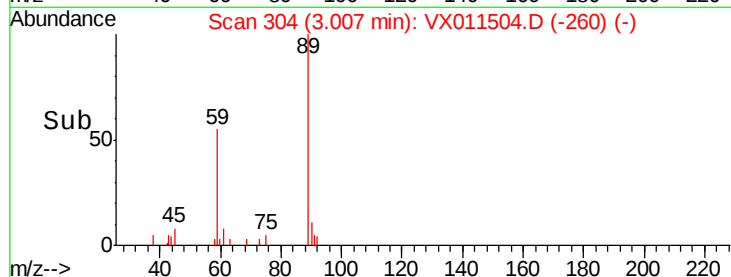
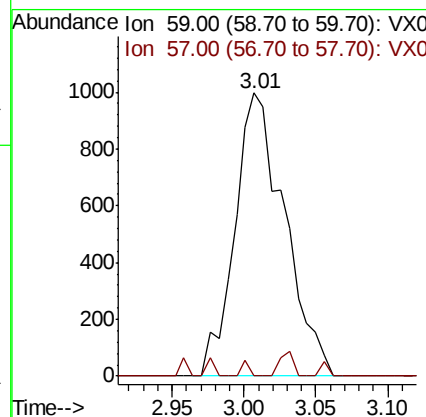
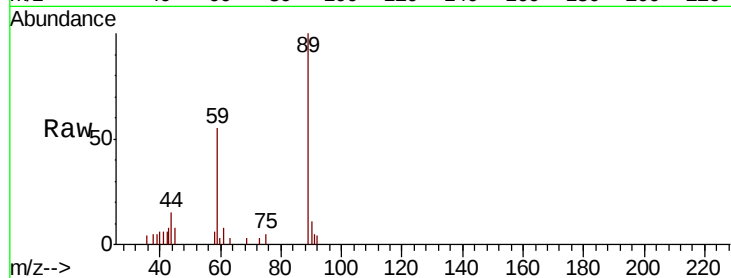


#11

Tert butyl alcohol
 Concen: 6.372 ug/l
 RT: 3.01 min Scan# 304
 Delta R.T. -0.03 min
 Lab File: VX011504.D
 Acq: 13 Aug 2019 00:03

Instrument :
 MSVOA_X
 ClientSampled :
 2S-J(0)

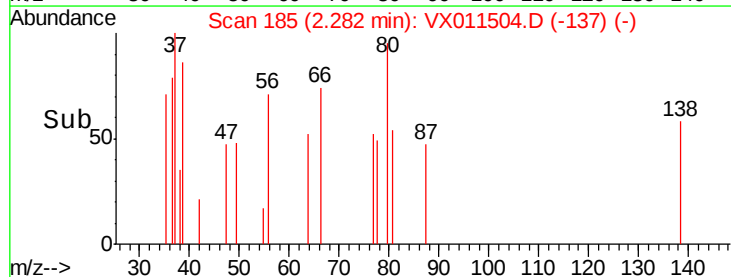
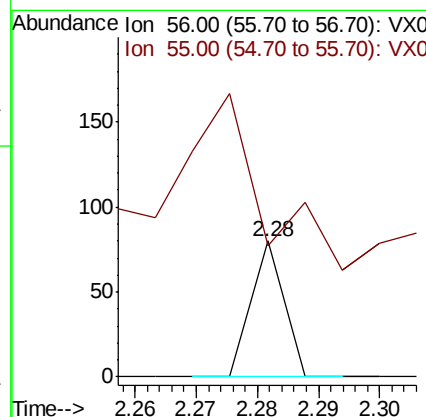
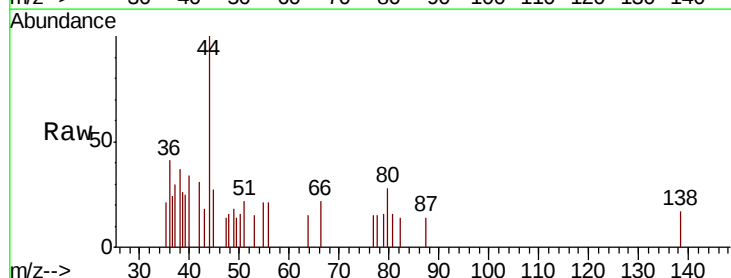
Tgt Ion: 59 Resp: 2388
 Ion Ratio Lower Upper
 59 100
 57 0.8 8.3 12.5#

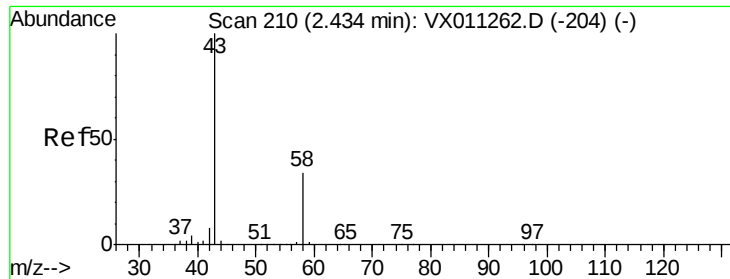


#13

Acrolein
 Concen: Below Cal
 RT: 2.28 min Scan# 185
 Delta R.T. -0.01 min
 Lab File: VX011504.D
 Acq: 13 Aug 2019 00:03

Tgt Ion: 56 Resp: 29
 Ion Ratio Lower Upper
 56 100
 55 1134.5 56.0 84.0#





#16

Acetone

Concen: 4.577 ug/l

RT: 2.43 min Scan# 210

Delta R.T. 0.00 min

Lab File: VX011504.D

Acq: 13 Aug 2019 00:03

Instrument :

MSVOA_X

ClientSampleId :

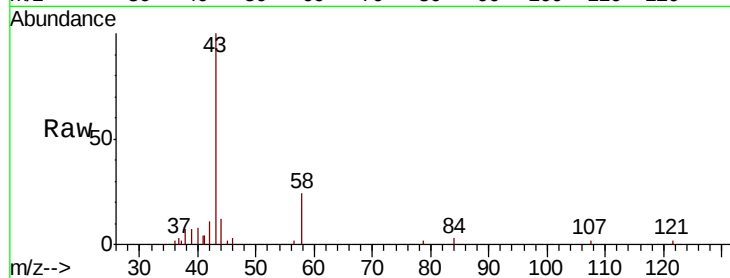
2S-J-(0)

Tgt Ion: 43 Resp: 4108

Ion Ratio Lower Upper

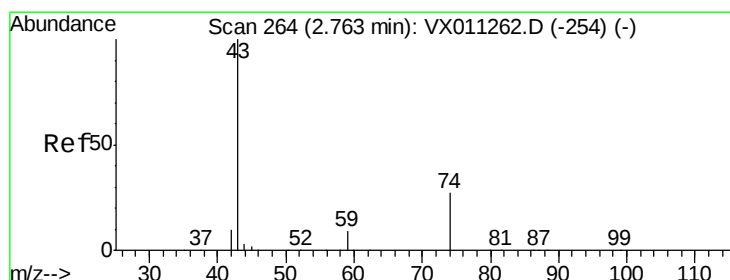
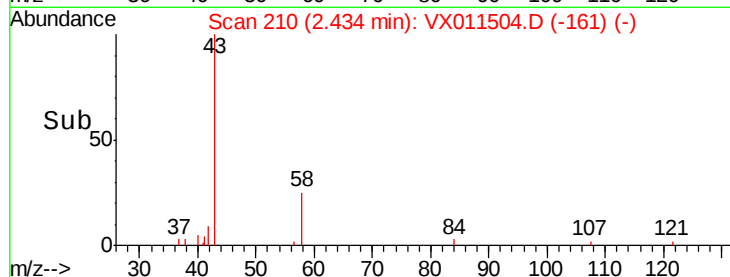
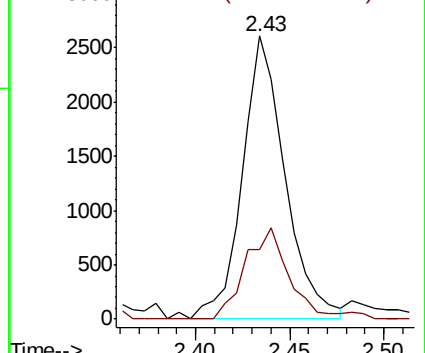
43 100

58 24.4 27.4 41.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#18

Methyl Acetate

Concen: 0.506 ug/l

RT: 2.77 min Scan# 265

Delta R.T. 0.01 min

Lab File: VX011504.D

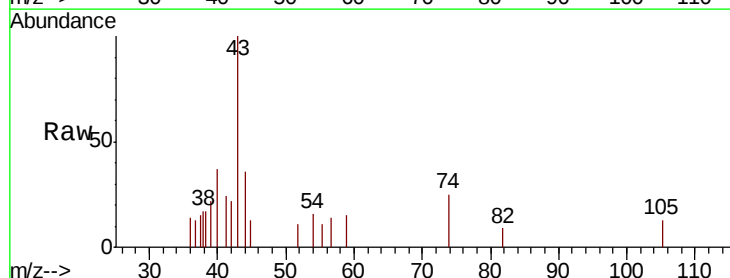
Acq: 13 Aug 2019 00:03

Tgt Ion: 43 Resp: 1037

Ion Ratio Lower Upper

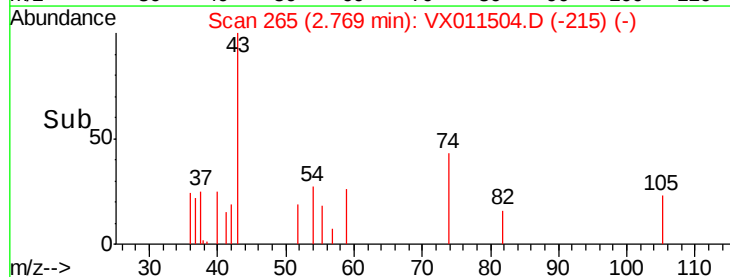
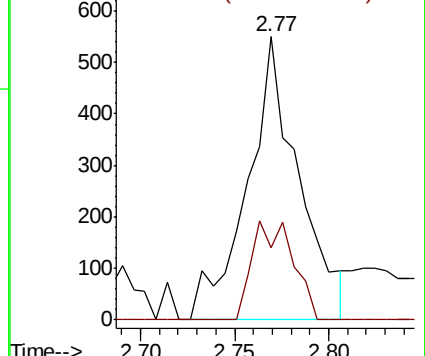
43 100

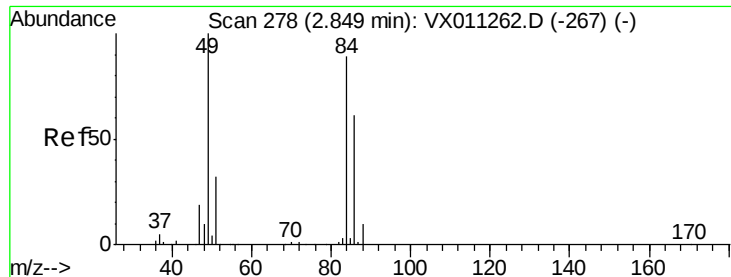
74 27.8 21.0 31.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

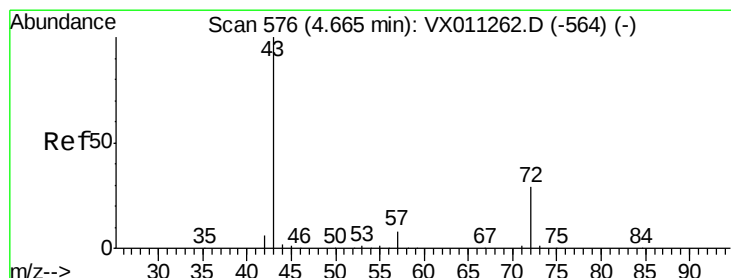
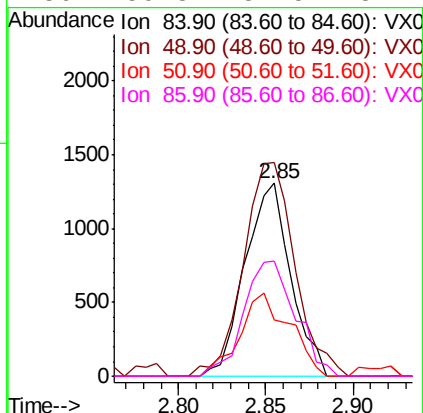
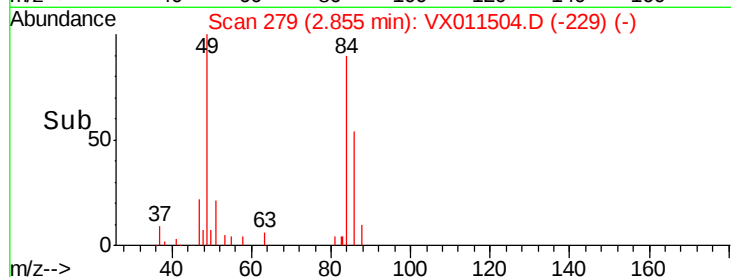
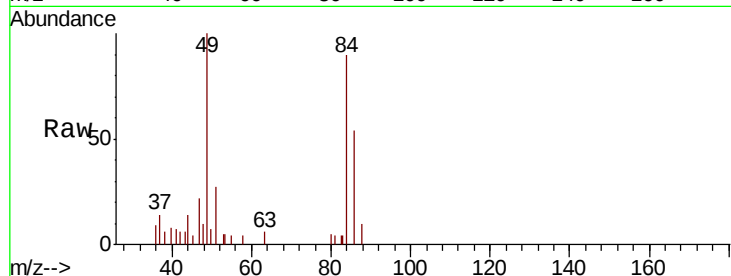




#20
Methylene Chloride
Concen: 1.215 ug/l
RT: 2.85 min Scan# 279
Delta R.T. 0.01 min
Lab File: VX011504.D
Acq: 13 Aug 2019 00:03

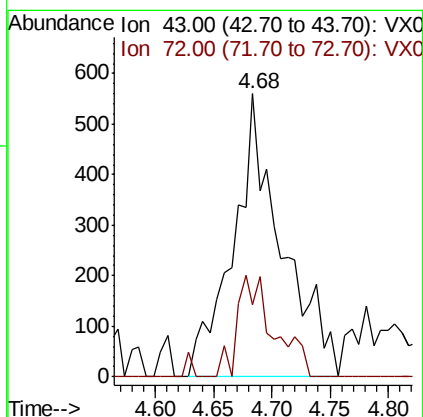
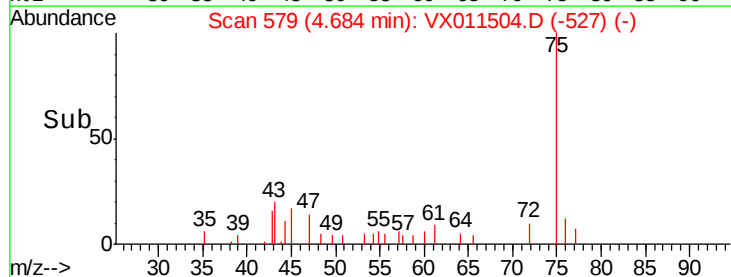
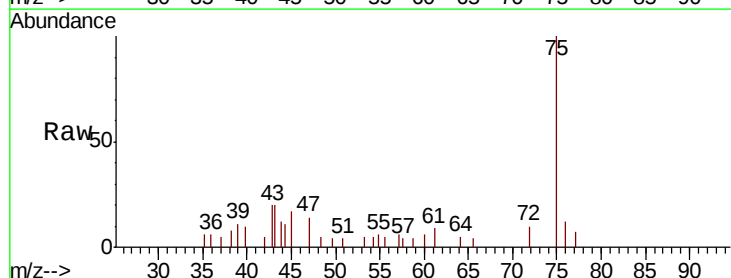
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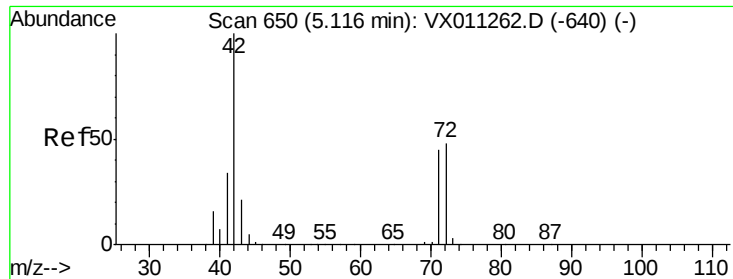
Tgt Ion:	84	Resp:	2389
Ion	Ratio	Lower	Upper
84	100		
49	110.6	89.3	133.9
51	29.5	28.3	42.5
86	59.8	54.5	81.7



#25
2-Butanone
Concen: 1.275 ug/l
RT: 4.68 min Scan# 579
Delta R.T. 0.02 min
Lab File: VX011504.D
Acq: 13 Aug 2019 00:03

Tgt Ion:	43	Resp:	1628
Ion	Ratio	Lower	Upper
43	100		
72	25.4	23.2	34.8

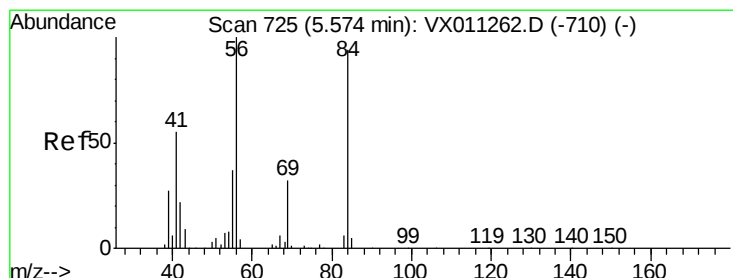
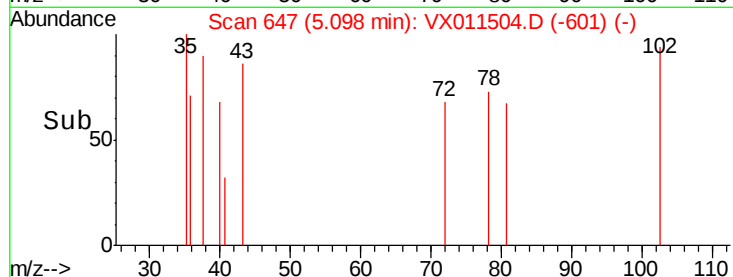
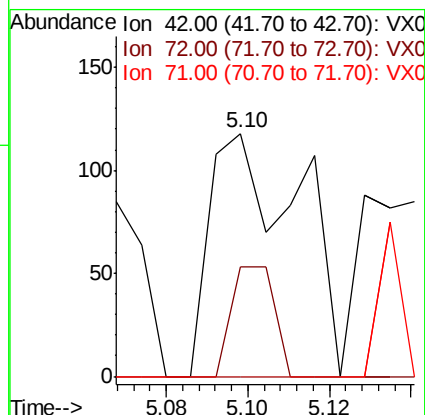
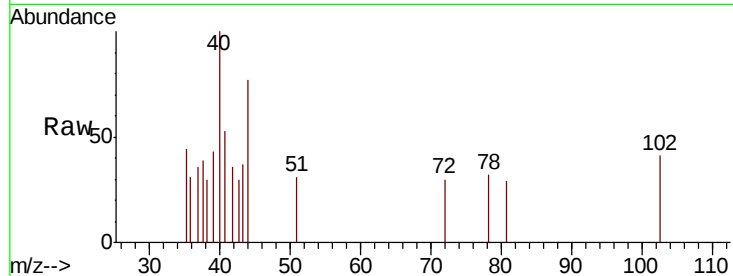




#29
Tetrahydrofuran
Concen: 0.227 ug/l
RT: 5.10 min Scan# 647
Delta R.T. -0.02 min
Lab File: VX011504.D
Acq: 13 Aug 2019 00:03

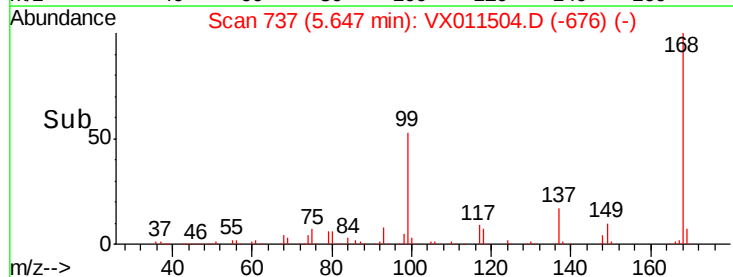
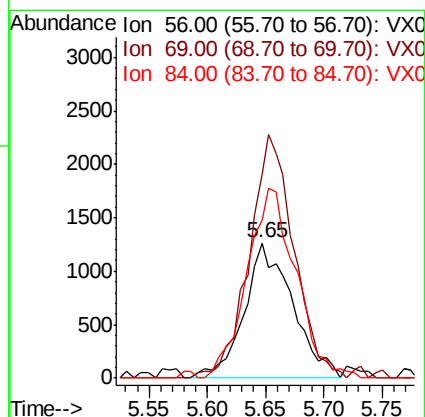
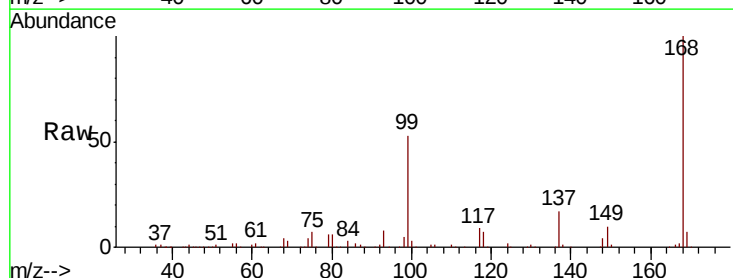
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2S-J-(0)

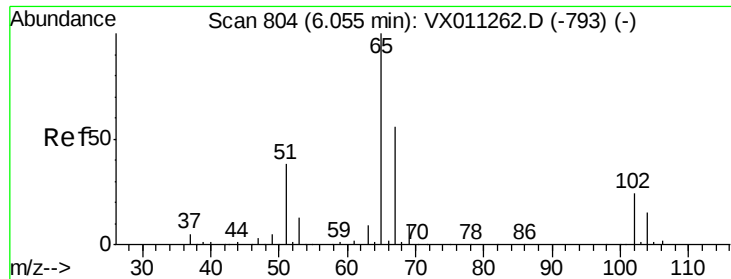
Tgt Ion: 42 Resp: 178
Ion Ratio Lower Upper
42 100
72 21.9 39.9 59.9#
71 0.0 36.9 55.3#



#31
Cyclohexane
Concen: 1.504 ug/l
RT: 5.65 min Scan# 737
Delta R.T. 0.07 min
Lab File: VX011504.D
Acq: 13 Aug 2019 00:03

Tgt Ion: 56 Resp: 3652
Ion Ratio Lower Upper
56 100
69 150.6 25.5 38.3#
84 111.6 75.0 112.4

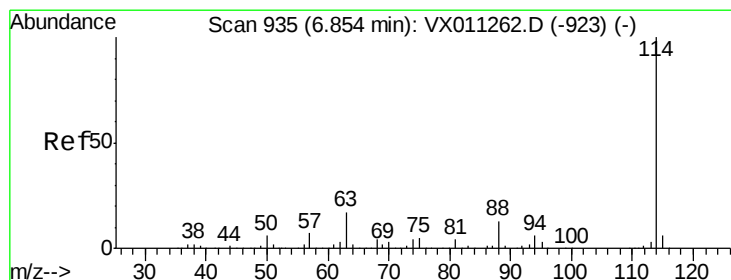
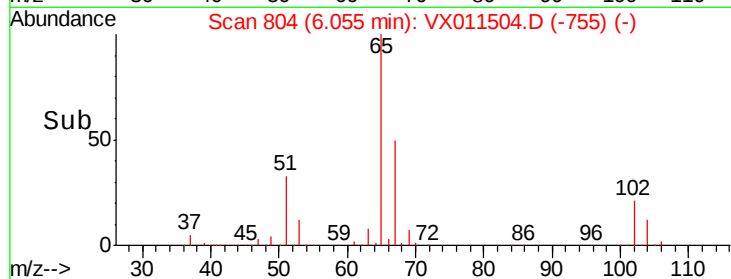
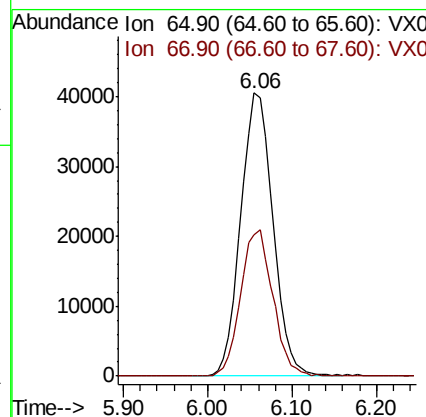
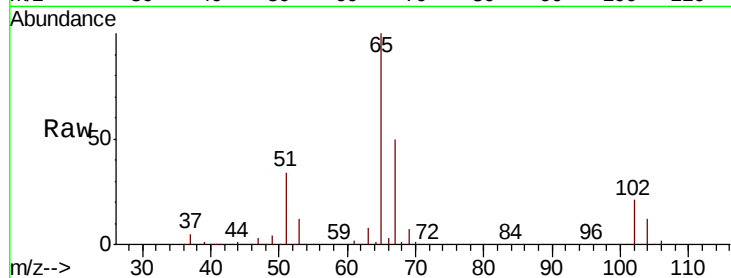




#33
 1,2-Dichloroethane-d4
 Concen: 55.676 ug/l
 RT: 6.06 min Scan# 804
 Delta R.T. 0.00 min
 Lab File: VX011504.D
 Acq: 13 Aug 2019 00:03

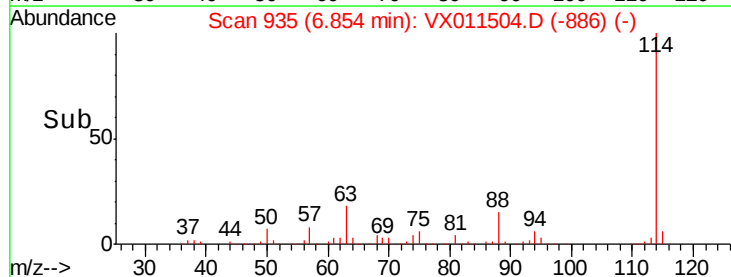
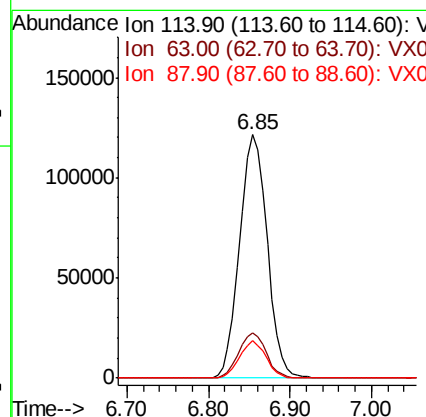
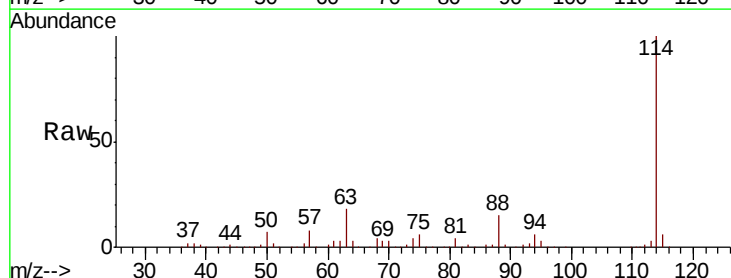
Instrument :
 MSVOA_X
 ClientSampleId :
 2S-J-(0)

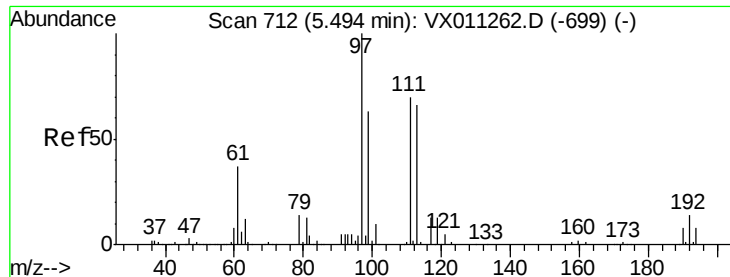
Tgt Ion: 65 Resp: 104997
 Ion Ratio Lower Upper
 65 100
 67 51.5 0.0 110.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 935
 Delta R.T. 0.00 min
 Lab File: VX011504.D
 Acq: 13 Aug 2019 00:03

Tgt Ion: 114 Resp: 284651
 Ion Ratio Lower Upper
 114 100
 63 18.5 0.0 34.0
 88 15.3 0.0 26.4





#35

Dibromofluoromethane

Concen: 46.809 ug/l

RT: 5.49 min Scan# 712

Delta R.T. 0.00 min

Lab File: VX011504.D

Acq: 13 Aug 2019 00:03

Instrument :

MSVOA_X

ClientSampleId :

2S-J-(0)

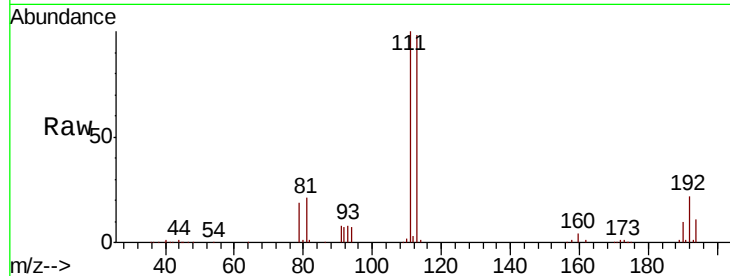
Tgt Ion:113 Resp: 86990

Ion Ratio Lower Upper

113 100

111 102.0 81.9 122.9

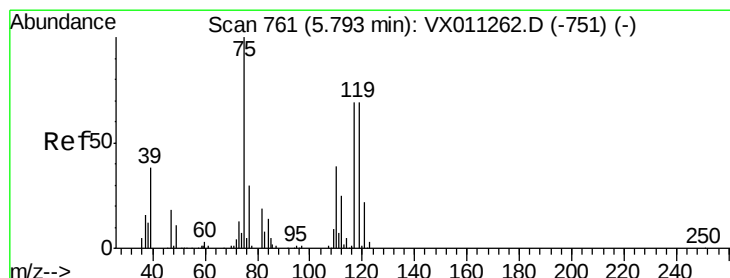
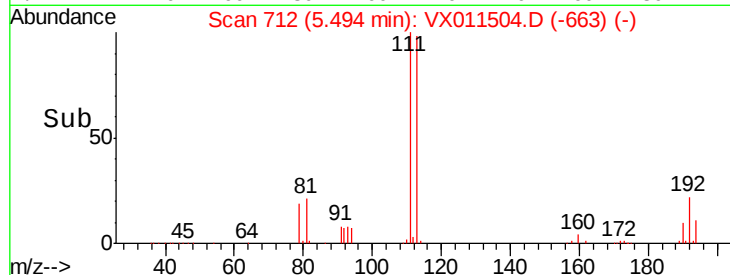
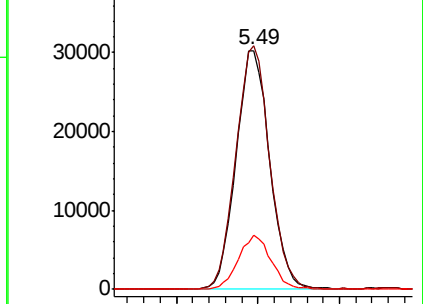
192 21.8 17.8 26.8



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 5.252 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX011504.D

Acq: 13 Aug 2019 00:03

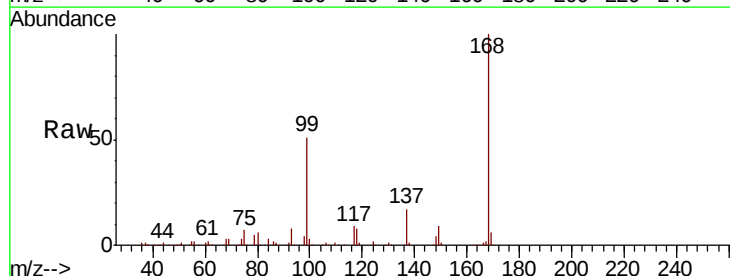
Tgt Ion: 75 Resp: 13052

Ion Ratio Lower Upper

75 100

110 11.0 20.0 59.9#

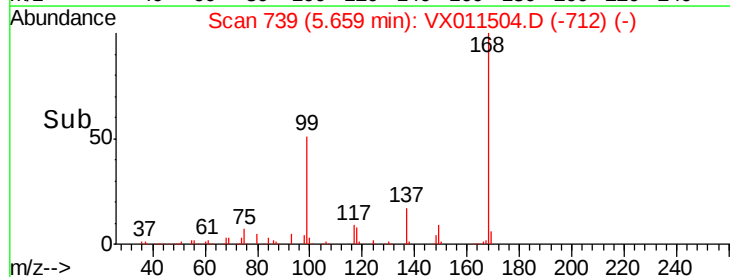
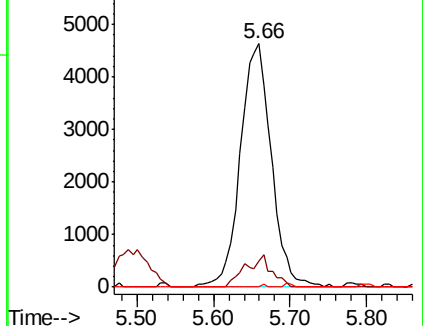
77 0.2 24.8 37.2#

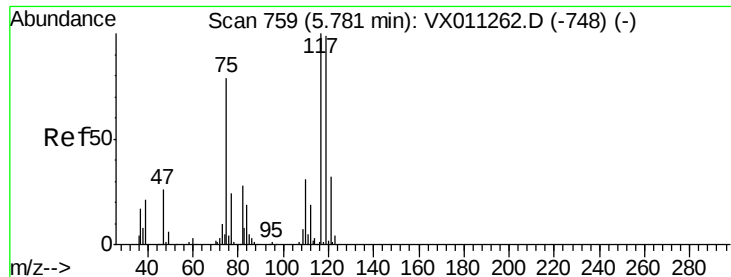


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

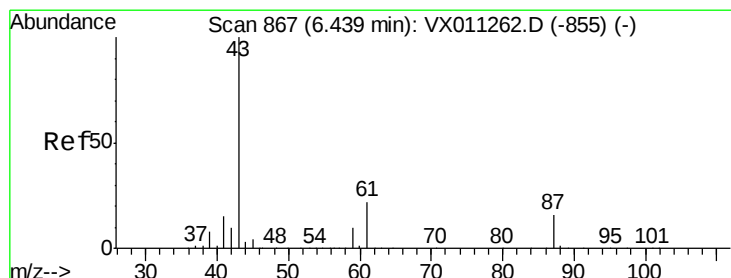
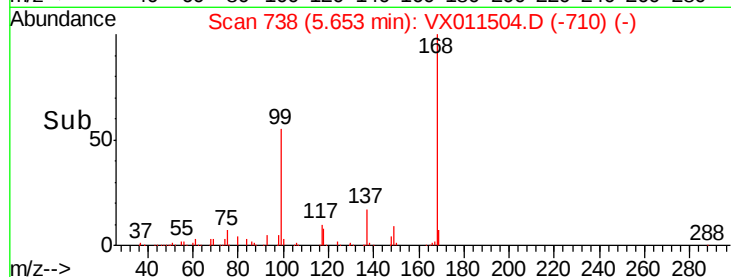
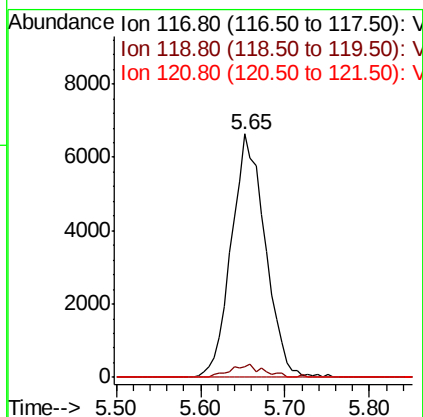
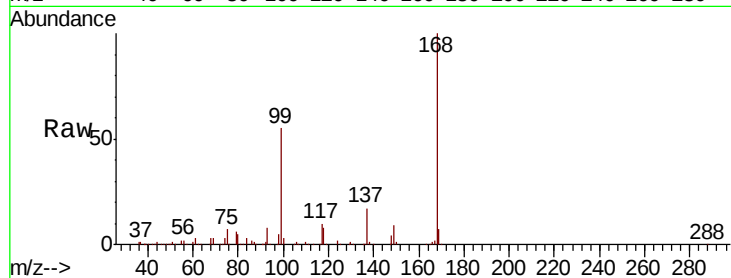




#38
Carbon Tetrachloride
Concen: 7.225 ug/l
RT: 5.65 min Scan# 738
Delta R.T. -0.13 min
Lab File: VX011504.D
Acq: 13 Aug 2019 00:03

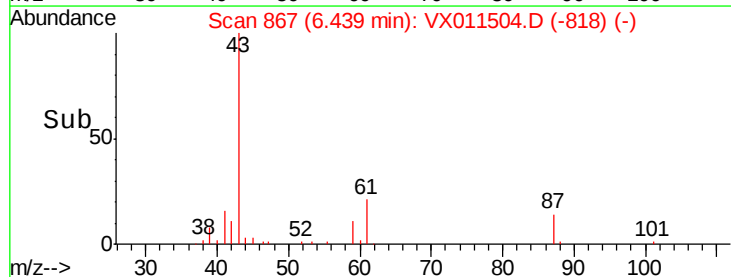
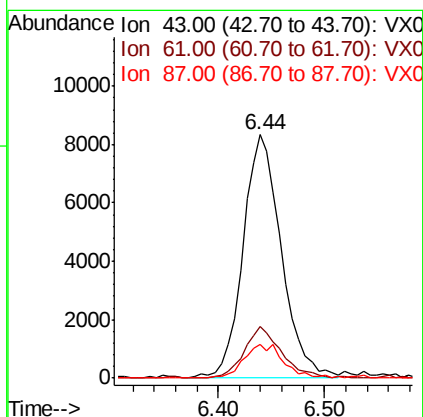
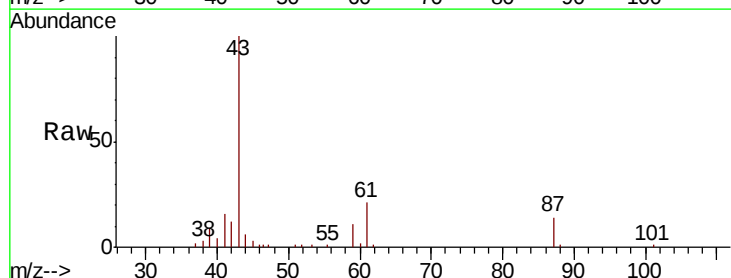
Instrument :
MSVOA_X
ClientSampleId :
2S-J-(0)

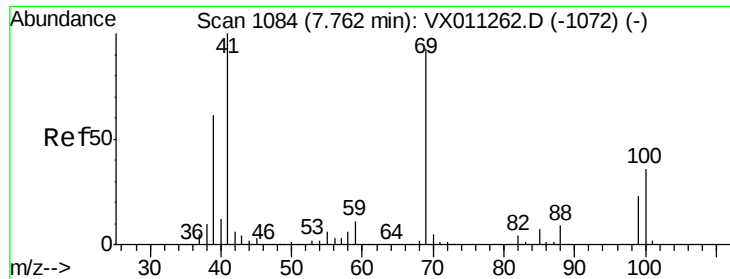
Tgt Ion:117 Resp: 18065
Ion Ratio Lower Upper
117 100
119 4.3 79.0 118.4#
121 0.0 25.9 38.9#



#43
Isopropyl Acetate
Concen: 5.276 ug/l
RT: 6.44 min Scan# 867
Delta R.T. 0.00 min
Lab File: VX011504.D
Acq: 13 Aug 2019 00:03

Tgt Ion: 43 Resp: 21029
Ion Ratio Lower Upper
43 100
61 20.3 16.5 24.7
87 14.4 12.1 18.1

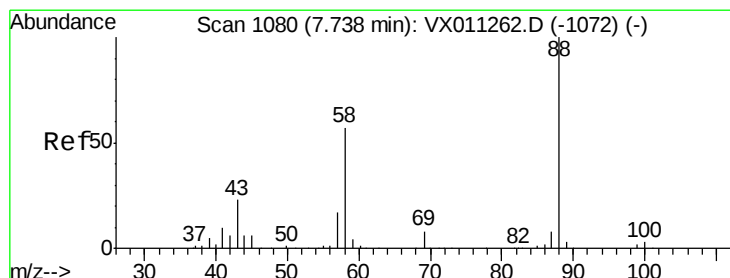
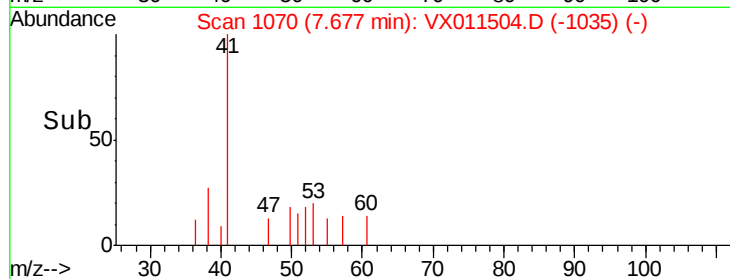
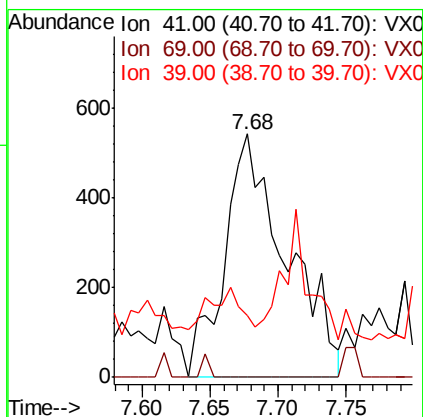
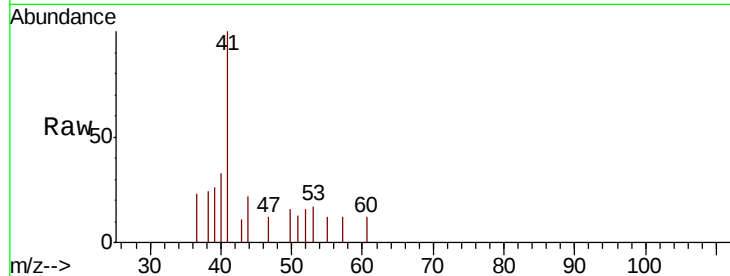




#48
Methyl methacrylate
Concen: 0.916 ug/l
RT: 7.68 min Scan# 1070
Delta R.T. -0.09 min
Lab File: VX011504.D
Acq: 13 Aug 2019 00:03

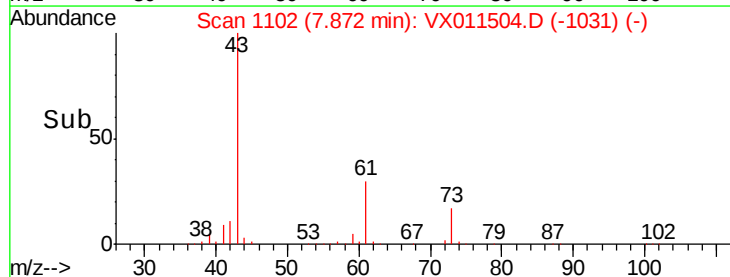
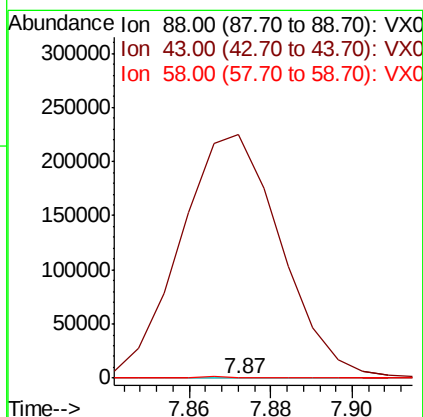
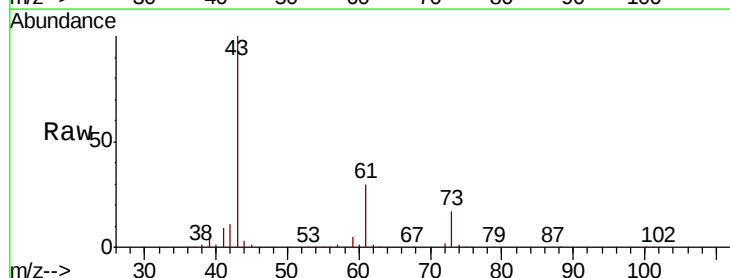
Instrument :
MSVOA_X
ClientSampled :
2S-J(0)

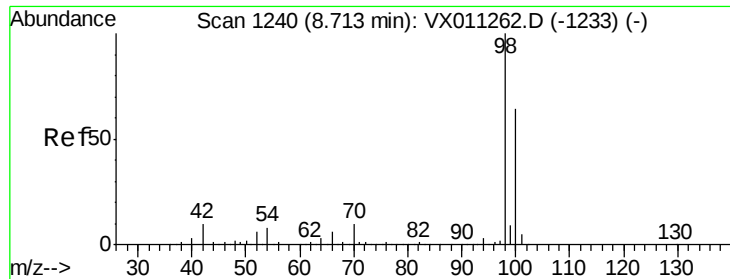
Tgt Ion: 41 Resp: 1718
Ion Ratio Lower Upper
41 100
69 0.0 74.5 111.7#
39 0.0 48.6 72.8#



#49
1,4-Dioxane
Concen: 0.883 ug/l
RT: 7.87 min Scan# 1102
Delta R.T. 0.13 min
Lab File: VX011504.D
Acq: 13 Aug 2019 00:03

Tgt Ion: 88 Resp: 48
Ion Ratio Lower Upper
88 100
43 814289.6 22.2 33.2#
58 4652.1 47.8 71.8#





#50

Toluene-d8

Concen: 48.025 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX011504.D

Acq: 13 Aug 2019 00:03

Instrument :

MSVOA_X

ClientSampleId :

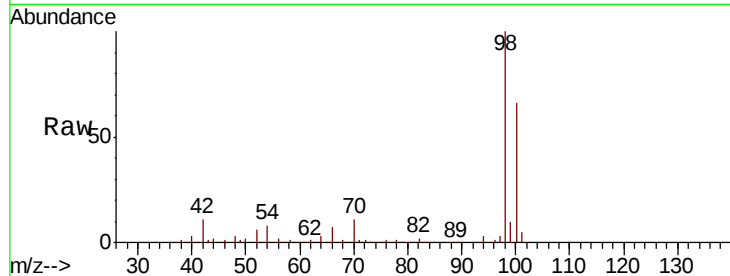
2S-J-(0)

Tgt Ion: 98 Resp: 336892

Ion Ratio Lower Upper

98 100

100 63.9 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX

8.71

250000

200000

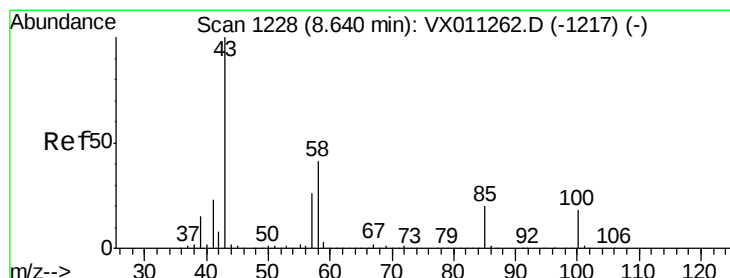
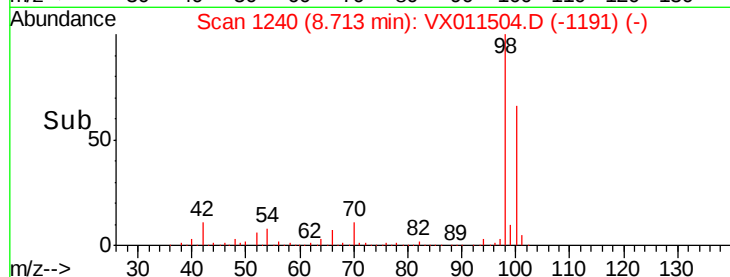
150000

100000

50000

0

Time--> 8.60 8.65 8.70 8.75 8.80



#51

4-Methyl-2-Pentanone

Concen: 7.973 ug/l

RT: 8.61 min Scan# 1223

Delta R.T. -0.03 min

Lab File: VX011504.D

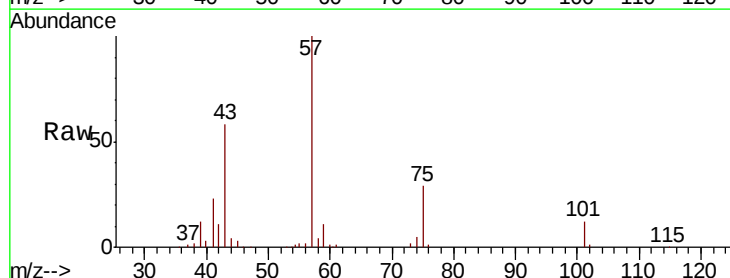
Acq: 13 Aug 2019 00:03

Tgt Ion: 43 Resp: 20509

Ion Ratio Lower Upper

43 100

58 10.7 32.3 48.5#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

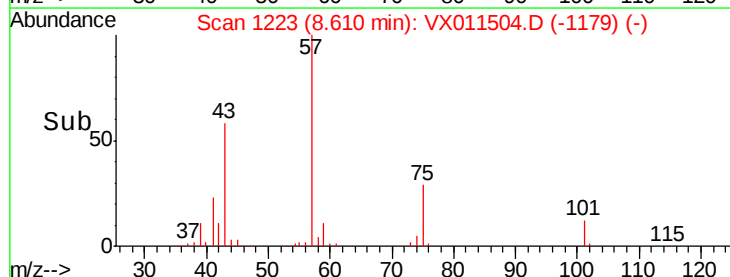
8.61

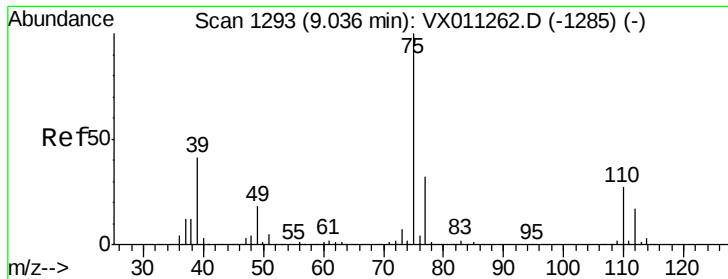
10000

5000

0

Time--> 8.50 8.55 8.60 8.65 8.70





#53

t-1,3-Dichloropropene

Concen: 2.876 ug/l

RT: 9.04 min Scan# 1293

Delta R.T. 0.00 min

Lab File: VX011504.D

Acq: 13 Aug 2019 00:03

Instrument :

MSVOA_X

ClientSampleId :

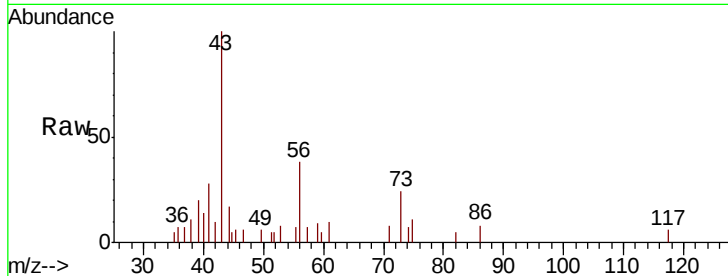
2S-J-(0)

Tgt Ion: 75 Resp: 110

Ion Ratio Lower Upper

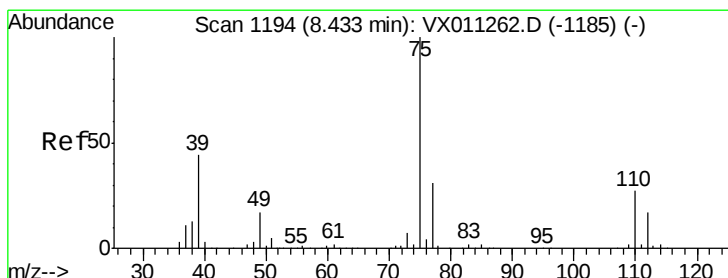
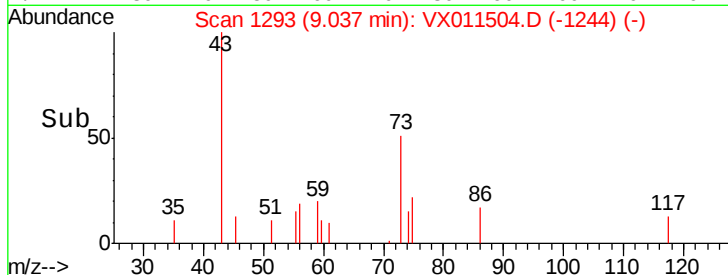
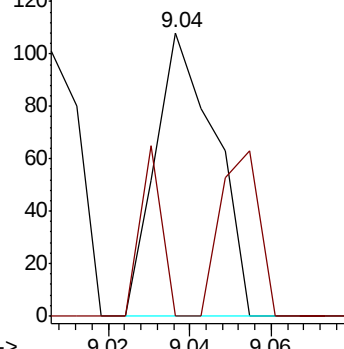
75 100

77 0.0 25.4 38.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0



#54

cis-1,3-Dichloropropene

Concen: 3.383 ug/l

RT: 8.61 min Scan# 1223

Delta R.T. 0.18 min

Lab File: VX011504.D

Acq: 13 Aug 2019 00:03

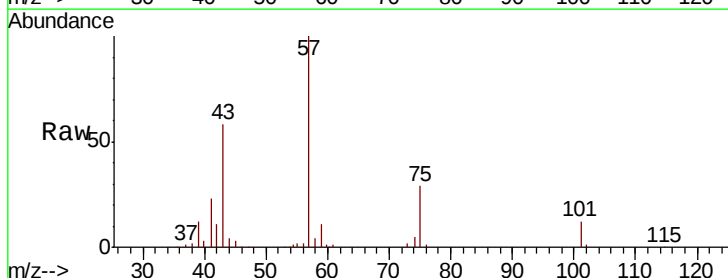
Tgt Ion: 75 Resp: 9381

Ion Ratio Lower Upper

75 100

77 0.0 25.0 37.6#

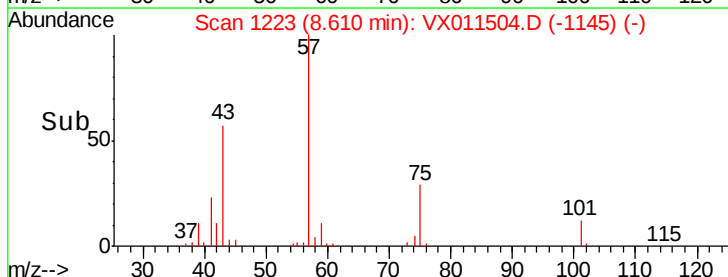
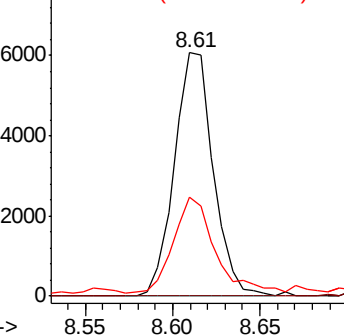
39 37.8 35.3 52.9

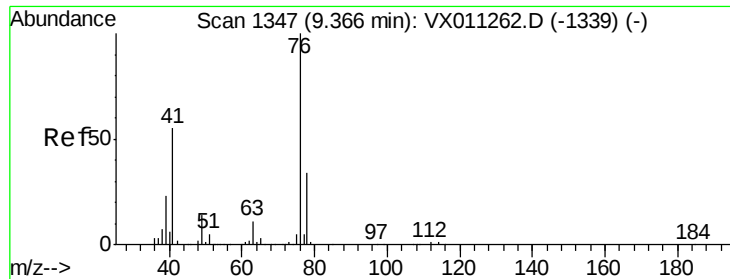


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

Ion 39.00 (38.70 to 39.70): VX0

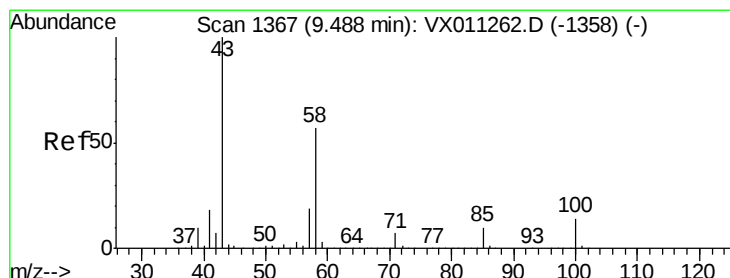
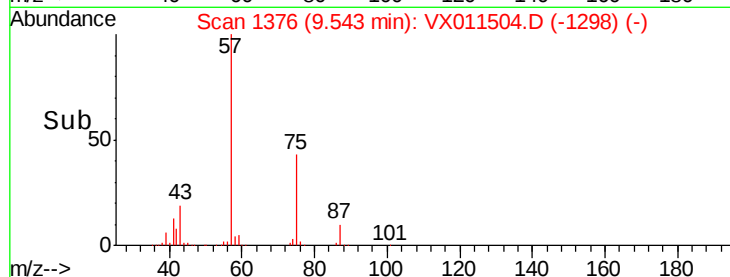
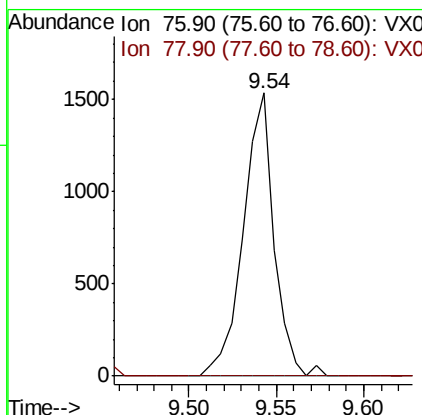
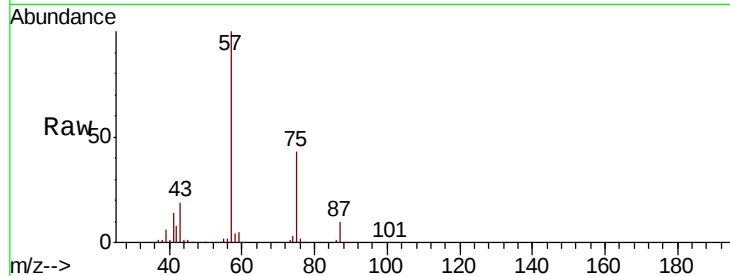




#57
 1,3-Dichloropropane
 Concen: 0.587 ug/l
 RT: 9.54 min Scan# 1376
 Delta R.T. 0.18 min
 Lab File: VX011504.D
 Acq: 13 Aug 2019 00:03

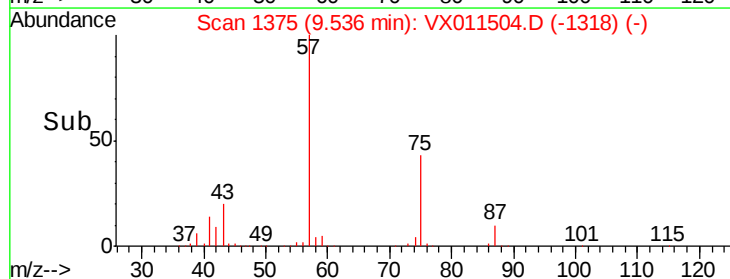
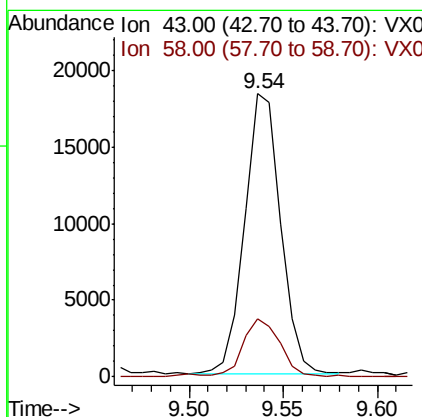
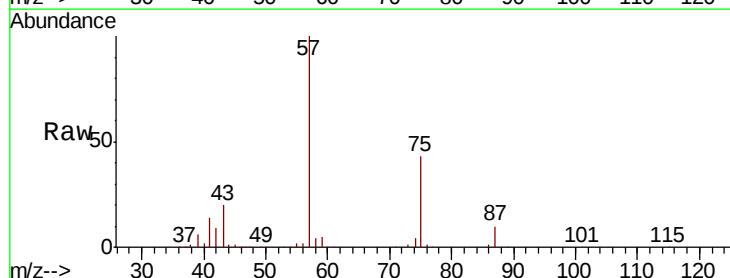
Instrument :
 MSVOA_X
 ClientSampleId :
 2S-J-(0)

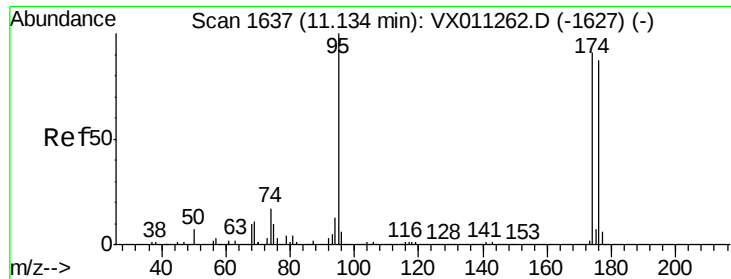
Tgt Ion: 76 Resp: 1870
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.6 40.0#



#59
 2-Hexanone
 Concen: 12.138 ug/l
 RT: 9.54 min Scan# 1375
 Delta R.T. 0.05 min
 Lab File: VX011504.D
 Acq: 13 Aug 2019 00:03

Tgt Ion: 43 Resp: 24183
 Ion Ratio Lower Upper
 43 100
 58 21.8 28.2 84.6#





#62

4-Bromofluorobenzene

Concen: 43.277 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX011504.D

Acq: 13 Aug 2019 00:03

Instrument :

MSVOA_X

ClientSampleId :

2S-J-(0)

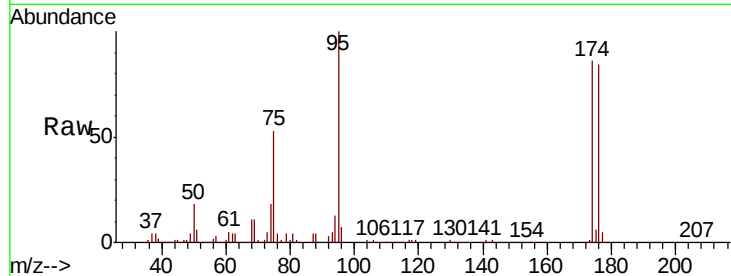
Tgt Ion: 95 Resp: 108389

Ion Ratio Lower Upper

95 100

174 92.8 0.0 191.2

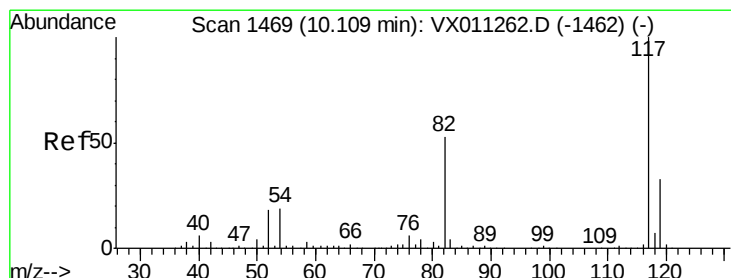
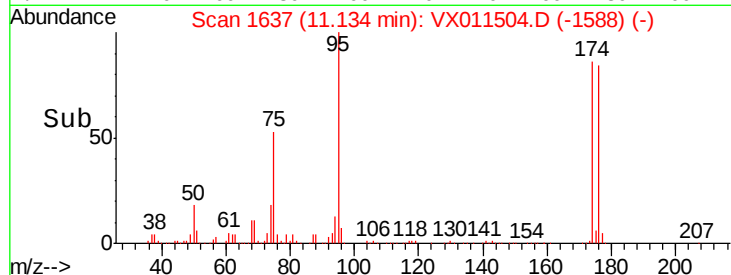
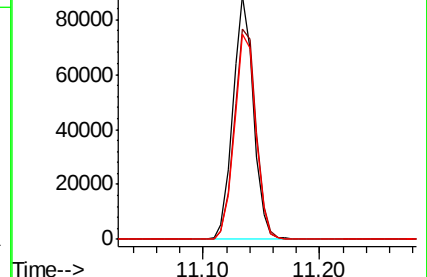
176 88.7 0.0 184.8



Abundance Ion 94.90 (94.60 to 95.60): VX011262.D (-1627) (-)

Ion 173.80 (173.50 to 174.50): VX011262.D (-1627) (-)

Ion 175.80 (175.50 to 176.50): VX011262.D (-1627) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX011504.D

Acq: 13 Aug 2019 00:03

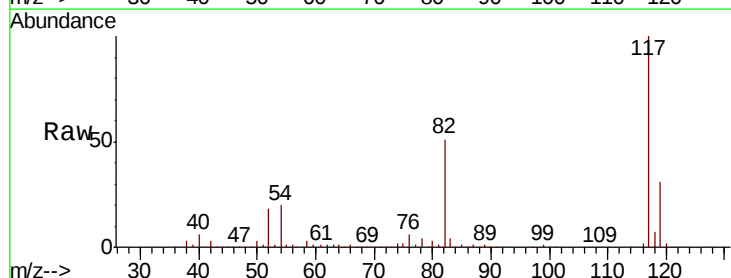
Tgt Ion: 117 Resp: 258850

Ion Ratio Lower Upper

117 100

82 51.0 42.2 63.2

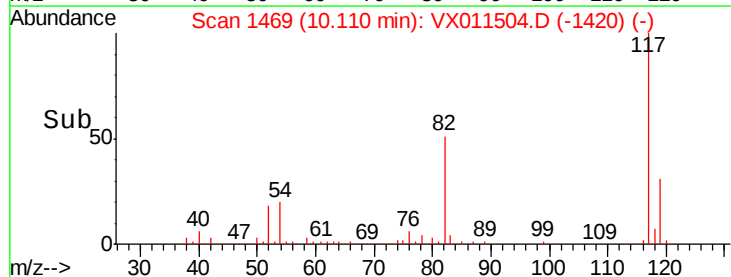
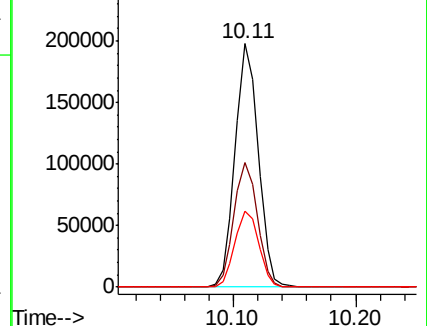
119 31.2 26.6 39.8

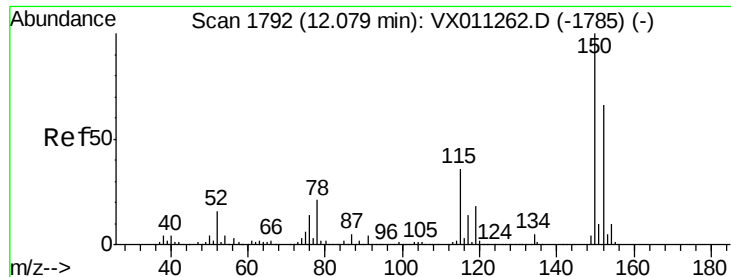


Abundance Ion 116.90 (116.60 to 117.60): VX011262.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX011262.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX011262.D (-1462) (-)



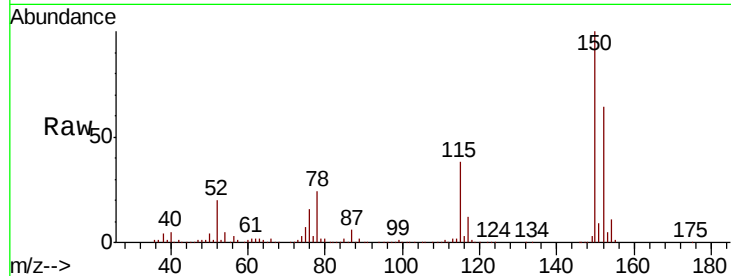


#72

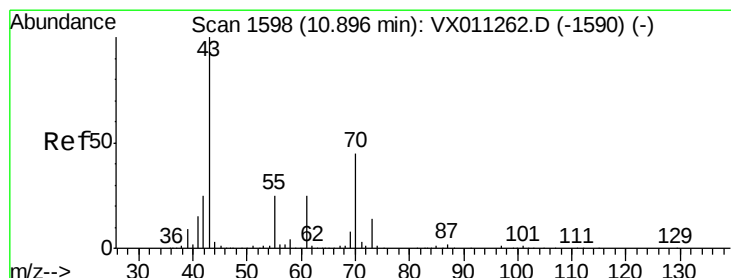
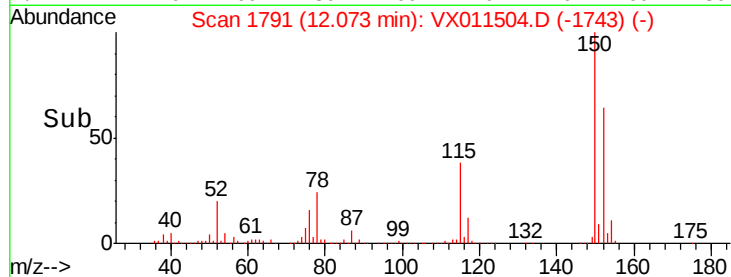
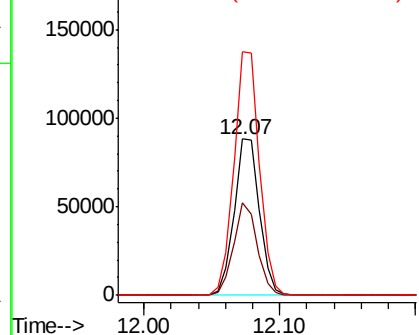
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1791
Delta R.T. -0.01 min
Lab File: VX011504.D
Acq: 13 Aug 2019 00:03

Instrument :
MSVOA_X
ClientSampleId :
2S-J-(0)

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.7	40.0	119.9
150	156.1	0.0	350.4



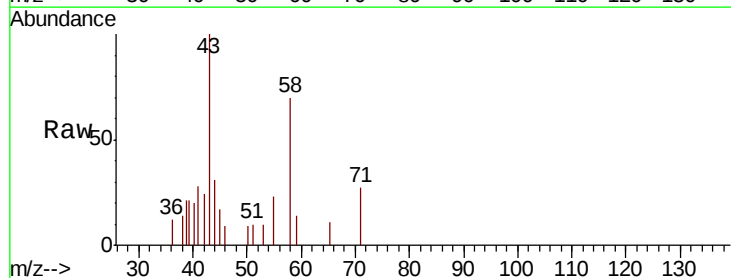
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



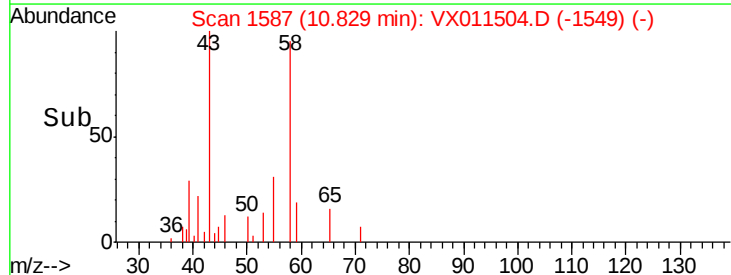
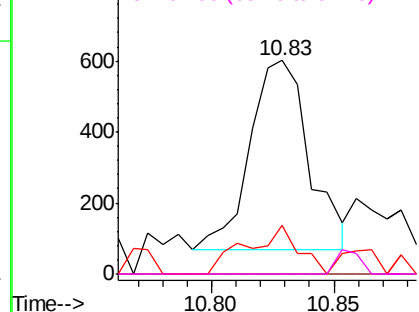
#74

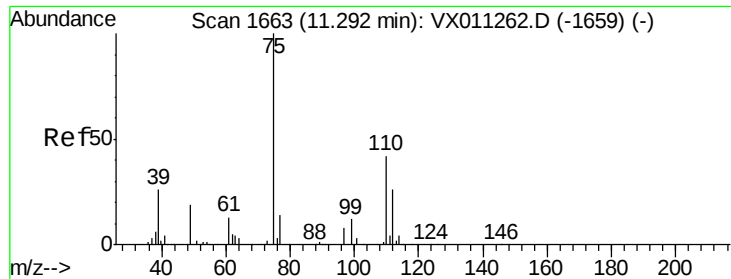
N-ethyl acetate
Concen: 0.322 ug/l
RT: 10.83 min Scan# 1587
Delta R.T. -0.07 min
Lab File: VX011504.D
Acq: 13 Aug 2019 00:03

Tgt Ion	Ratio	Lower	Upper
43	100		
70	0.0	35.9	53.9#
55	22.2	19.8	29.6
61	0.0	19.7	29.5#



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 70.00 (69.70 to 70.70): VX0
Ion 55.00 (54.70 to 55.70): VX0
Ion 61.00 (60.70 to 61.70): VX0

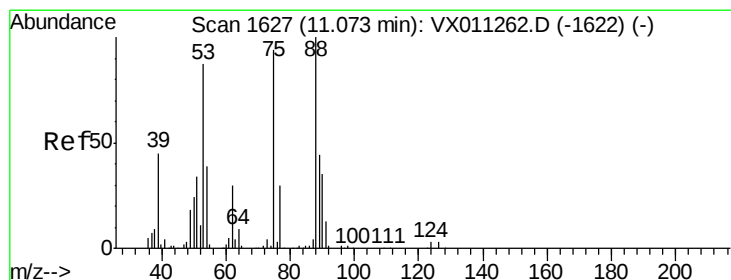
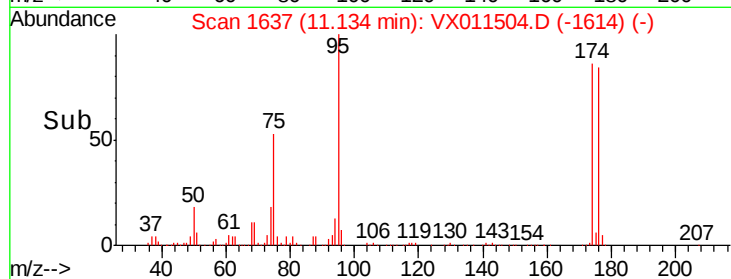
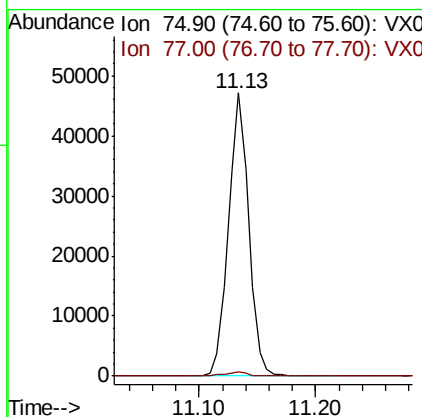
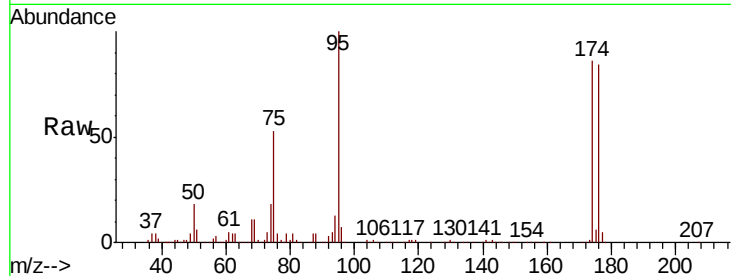




#76
 1,2,3-Trichloropropane
 Concen: 27.427 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX011504.D
 Acq: 13 Aug 2019 00:03

Instrument :
 MSVOA_X
 ClientSampleId :
 2S-J-(0)

Tgt Ion: 75 Resp: 57018
 Ion Ratio Lower Upper
 75 100
 77 1.5 21.1 63.4#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 71.132 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX011504.D
 Acq: 13 Aug 2019 00:03

Tgt Ion: 75 Resp: 57018
 Ion Ratio Lower Upper
 75 100
 53 0.2 78.2 117.4#
 89 0.0 37.9 56.9#

